The Human Genome Project: Some Assembly Required The Methods, Goals, and Implications of the Human Genome Project

The 1994 Graduate Student Symposium April 15-17, 1994

Keynote Address:

Leroy Hood, University of Washington School of Medicine. Perspectives on the Human Genome Project.

Session I: Finding the Parts - Large Scale Sequencing Technology

Bob Waterston, Washington University School of Medicine. The C. elegans Genome Project: Lessons.

Leroy Hood, University of Washington School of Medicine. Large Scale DNA Sequencing.

Stephen Fodor, Affymetrix. Santa Clara, CA. Oligonucleotide Arrays and Sequence Analysis by Hybridization.

Session II: Assembly Instructions - Analysis of Genomic Sequence Data

David Searls, University of Pennsylvania School of Medicine, Gerome Linguistics.

Richard Murai, Oak Ridge National Laboratory. Combining Neural Networks and Expert Systems to Identify Features in DNA Sequences.

Phil Green, Washington University School of Medicine. Ancient Conserved Regions: Implications for Gene Identification.

Session III: Trouble Shooting - Understanding Human Genetic Disease

Katheleen Gardiner, Elenor Roosevelt Institute. Chromosome 21: Its Associated Genetic Diseases and Its Place in the Human Genome Project.

Charles Laird, University of Washington. Triplet Repeat Disease and Genomic Imprinting.

Mary-Claire King, University of California, Berkeley. Mapping Genetic Disorders.

Session IV: Discialmera - Ethical, Legal, and Social Issues

Kenneth Kidd, Yale University Medical School. Diverse Human Genomes.

Dean Hamer, National Institutes of Health. Genetics and Sexual Orientation.

Michael Yesley, Los Alamos National Laboratory. The NIH-DOE ELSI Program.

Self vs. Nonself: Mod:s of Organismal Recognition and Defense

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Keynote Speaker:

Philippa Marrack, National Jewish Center for Immunology and Respiratory Medicine, Self vs. Nonself.

Session I: Nonvertebrate Recognition and Defense: Discriminating Within a Species

William Hidelmann, University of California, Los Angelos. Allogeneic Recognition in Sponges,

June Nasrallah, Cornell University. Self vs. Nonself in Species Propagation: Plant Self-Incompatability.

Irving Weissman, Stanford University Medical Center. Recognition of Self in Protochordates: The FulfiC Locus in Tunicates.

Session II: Nonvertebrate Recognition and Defense: Discriminating Among a Species

Elisabeth Raleigh, New England Biolabs, Beverly, Massachusetts. The Methylation-Dependent Restriction Enzyme mcrBC in E. coli as a Defense Against T-even Phages.

Hans Boman, Stockholm University, Stockholm, Sweden. Immune Reactions in the Cecropia Moth.

Frederick Ausubel, Harvard Medical School. Disease Resistance in Arabidopsis thaliana.

Christopher Bayne, Oregon State University. Possible Role of Lectins in SelfiNonself Recognition in Mollusks.

Session III: Vertebrate Immune Recognition and Defense

Ellen Meier, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland. The Mx Genes and Host Resistance to Viral Pathogens.

Gary Litman, University of South Florida. Vertebrate Antibody Gene Organization in Sharks.

Ronald Schwartz, National Institutes of Health. T Cell Anergy.

David Nemazee, National Jewish Center for Immunology and Respiratory Medicine. B Cell Tolerance: Clonal Deletion, Clonal Anergy, and Receptor Editing.

Session IV: Vertebrate immune Recognition and Defense: When Things Aren't Quite What They Should Be

David Wolsy, University of California, San Franscisco. When Self Becomes Nonself: Systemic Lupus Erythematosis.

John Kappler, National Jewish Center for Immunology and Respiratory Medicine. Overriding Specificity: Superantigens.

Anthony Faucl, National Institutes of Health. HIV vs. the Immune System: How It Wages an Effective War.

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